



Australian Government

Assessment Requirements for FBPCEL3009 Operate the crossflow filtration process

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has demonstrated at least one crossflow filtration process including:

- accessing workplace information to identify crossflow filtration processing requirements
- selecting and fitting appropriate personal protective equipment
- checking supply and status of materials before commencing crossflow filtration process
- preparing and confirming status of equipment and services before commencing crossflow filtration process
- setting up and starting the crossflow filtration process
- monitoring the crossflow process, including pressures
- taking corrective action in response to non-conformance results
- shutting down the process after crossflow filtration operations are completed
- conducting work according to environmental and workplace health and safety requirements.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- purpose of the crossflow filtration process and the links between filtration and other processes used in wine operations
- basic operating principles of crossflow filtration equipment
- types of membranes used in filtration processes and their application in wine making
- differences between crossflow filtration and other types of filtration processes used in wine operations
- main filtration techniques and how these techniques can affect the characteristics of the wine

- main considerations for the crossflow filtration process:
 - flow rate calculation
 - pressure monitoring, including differential and transmembrane
 - backflushing
 - alternating product flow
 - process flow disruptions
 - final concentration, including removal of sediments
 - clean-in-place
- common causes of non-conformance results for product, process and equipment and corrective action required including:
 - issues that can be rectified
 - issues that must be reported
- responsibilities for health and safety in the workplace including:
 - health and safety hazards associated with the crossflow filtration process
 - methods for controlling risks associated with work health and safety hazards
- responsibilities for identifying and controlling environmental issues
- workplace procedures and responsibility for:
 - reporting problems
 - shutting down the process
 - cleaning
 - handling waste
 - recording information.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a wine operations workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective equipment for crossflow filtration operations
 - equipment and materials required for crossflow filtration process
 - system for recording and reporting information
- specifications:
 - workplace procedures for crossflow filtration process.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>